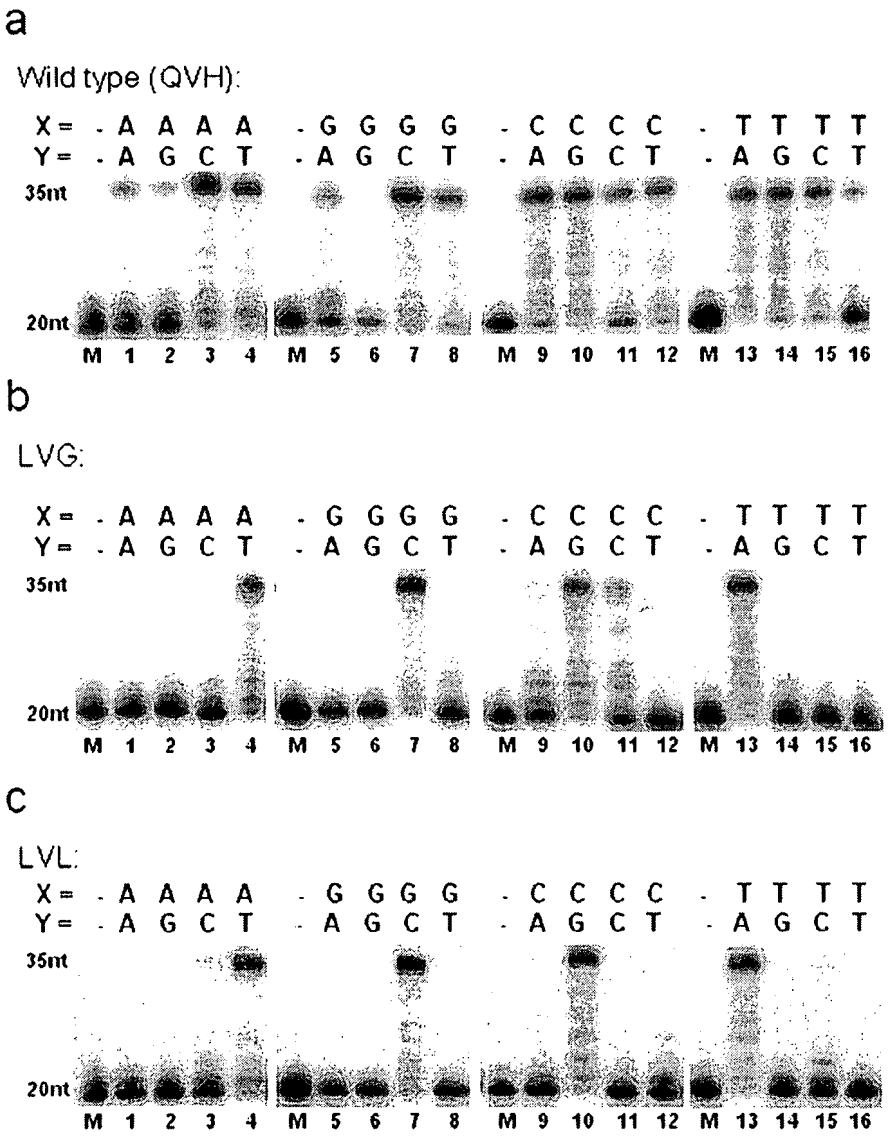

a
Wild type (QVH):
X= - A A A A - G G G G - C C C C - T T T T
Y= - A G C T - A G C T - A G C T - A G C T
35nt
20nt
M 1 2 3 4 M 5 6 7 8 M 9 10 11 12 M 13 14 15 16
b
LVG:
X= - A A A A - G G G G - C C C C - T T T T
Y= - A G C T - A G C T - A G C T - A G C T
35nt
20nt
M 1 2 3 4 M 5 6 7 8 M 9 10 11 12 M 13 14 15 16
c
LVL:
X= - A A A A - G G G G - C C C C - T T T T
Y= - A G C T - A G C T - A G C T - A G C T
35nt
20nt
M 1 2 3 4 M 5 6 7 8 M 9 10 11 12 M 13 14 15 16

FIG. 1

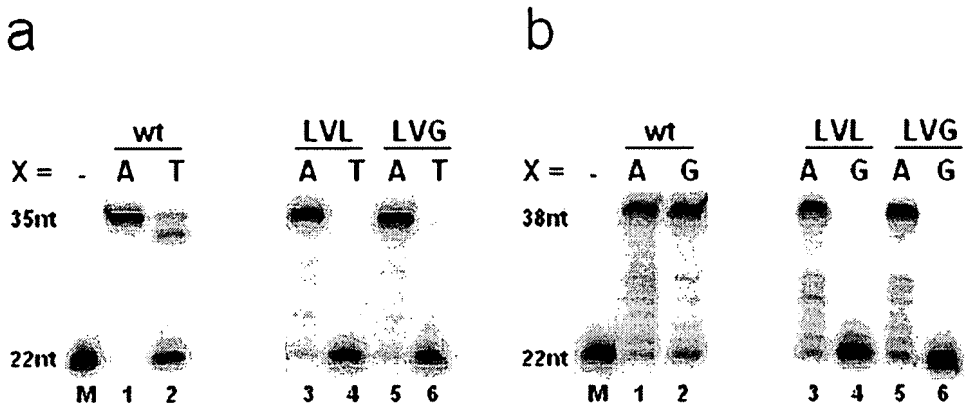

a
b
wt
LVL
LVG
X = - A T A T A T
35nt
22nt
M 1 2 3 4 5 6
wt
LVL
LVG
X = - A G A G A G
38nt
22nt
M 1 2 3 4 5 6

FIG. 2

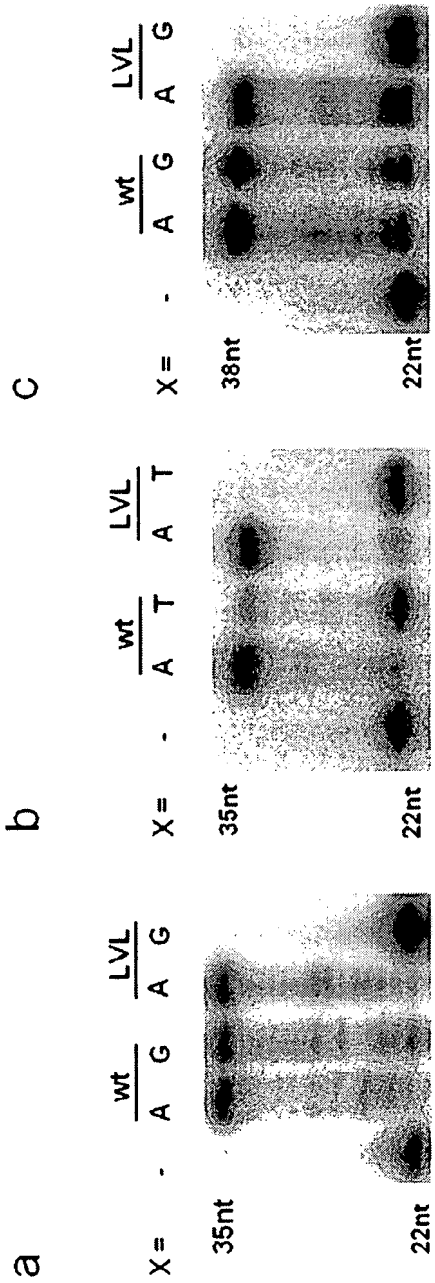
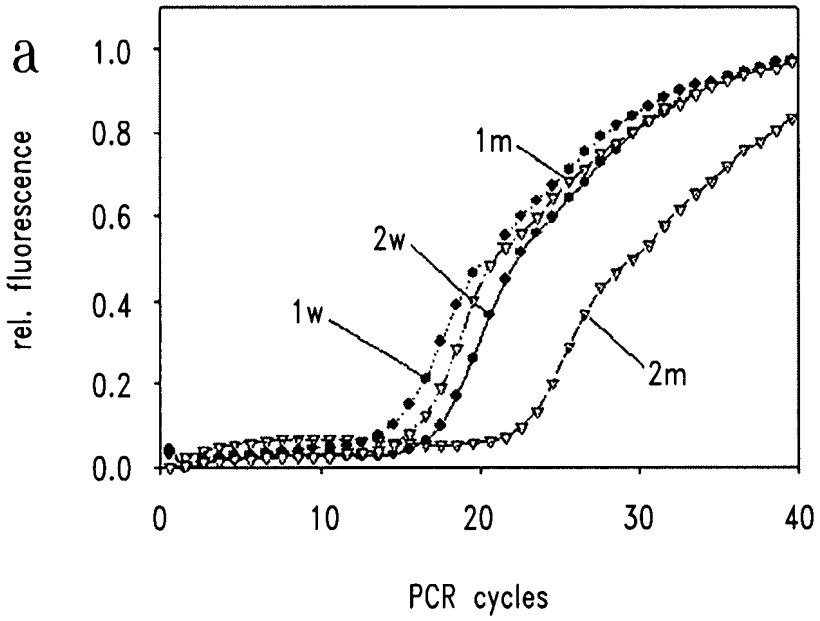

a
X= - wt/A LVL/G
35nt
22nt
b
X= - wt/A LVL/T
35nt
22nt
c
X= - wt/A LVL/G
38nt
22nt

FIG. 3


a
rel. fluorescence
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
PCR cycles
1m
2w
1w
2m

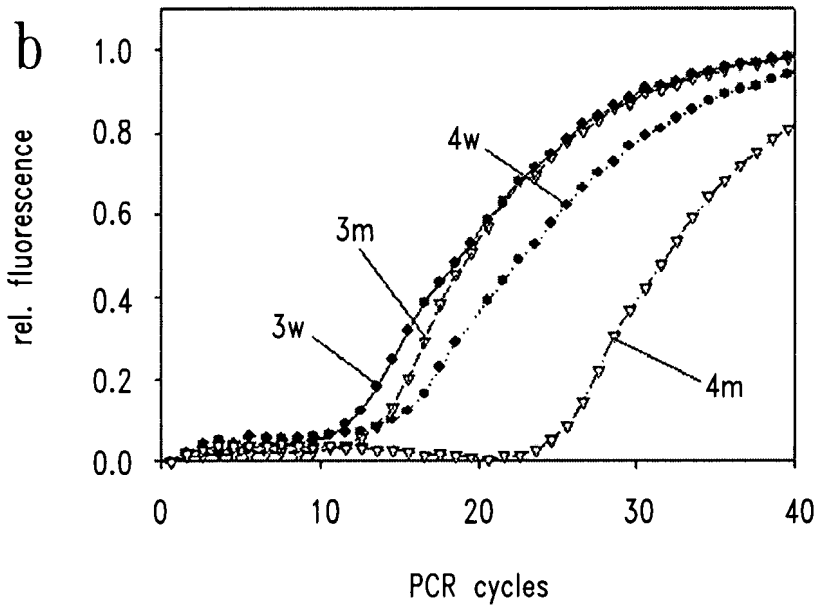

b
rel. fluorescence
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
PCR cycles
4w
3m
3w
4m

FIG. 4

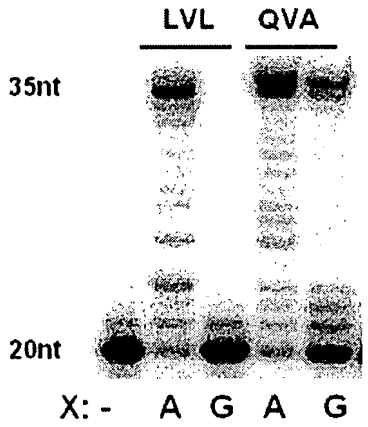


FIG. 5